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RAW SEQUENCE LISTING

DATE: 06/28/2002

PATENT APPLICATION: US/09/804,490

TIME: 07:17:34

Input Set : N:\Crf3\Datahold\EFS\09804490\CIBT-P01-114SequenceListing.txt

Output Set: N:\CRF3\06282002\I804490.raw

5 <110> APPLICANT: Burkly, L.
6 Wang, J.
8 <120> TITLE OF INVENTION: HEDGEHOG AND PATCHED ANTAGONISTS FOR INHIBITING CELL AND
TISSUE GROWTH
9 AND DIFFERENTIATION AND USES THEREOF
11 <130> FILE REFERENCE: CIBT-P01-114
13 <140> CURRENT APPLICATION NUMBER: 09/804,490
14 <141> CURRENT FILING DATE: 2001-03-12
16 <150> PRIOR APPLICATION NUMBER: 60/100,037
17 <151> PRIOR FILING DATE: 1998-09-11
19 <160> NUMBER OF SEQ ID NOS: 1
21 <170> SOFTWARE: PatentIn version 3.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 176
25 <212> TYPE: PRT
26 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Consensus sequence of the N-terminal domain of vertebrate
hedgeho
30 g protein
32 <220> FEATURE:
33 <221> NAME/KEY: MISC_FEATURE
34 <222> LOCATION: (6)..(6)
35 <223> OTHER INFORMATION: Xaa=Val or Gly
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38 <221> NAME/KEY: MISC_FEATURE
39 <222> LOCATION: (7)..(7)
40 <223> OTHER INFORMATION: Xaa=Val, Phe or Pro
42 <220> FEATURE:
43 <221> NAME/KEY: MISC_FEATURE
44 <222> LOCATION: (8)..(8)
45 <223> OTHER INFORMATION: Xaa=Gly or Val
47 <220> FEATURE:
48 <221> NAME/KEY: MISC_FEATURE
49 <222> LOCATION: (9)..(9)
50 <223> OTHER INFORMATION: Xaa=Ser or Gly
52 <220> FEATURE:
53 <221> NAME/KEY: MISC_FEATURE
54 <222> LOCATION: (10)..(10)
55 <223> OTHER INFORMATION: Xaa=Arg or Lys
57 <220> FEATURE:
58 <221> NAME/KEY: MISC_FEATURE
59 <222> LOCATION: (13)..(13)
60 <223> OTHER INFORMATION: Xaa=Phe, His or Tyr

62 <220> FEATURE:

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63 <221> NAME/KEY: MISC_FEATURE
64 <222> LOCATION: (14)..(14)
65 <223> OTHER INFORMATION: Xaa=Pro or Ala
67 <220> FEATURE:
68 <221> NAME/KEY: MISC_FEATURE
69 <222> LOCATION: (15)..(15)
70 <223> OTHER INFORMATION: Xaa=Arg or Lys
72 <220> FEATURE:
73 <221> NAME/KEY: MISC_FEATURE
74 <222> LOCATION: (17)..(17)
75 <223> OTHER INFORMATION: Xaa=any amino acid
77 <220> FEATURE:
78 <221> NAME/KEY: MISC_FEATURE
79 <222> LOCATION: (19)..(19)
80 <223> OTHER INFORMATION: Xaa=Val or Thr
82 <220> FEATURE:
83 <221> NAME/KEY: MISC_FEATURE
84 <222> LOCATION: (22)..(22)
85 <223> OTHER INFORMATION: Xaa=Ala or Leu
87 <220> FEATURE:
88 <221> NAME/KEY: MISC_FEATURE
89 <222> LOCATION: (27)..(27)
90 <223> OTHER INFORMATION: Xaa=Ser, Ile or Val
92 <220> FEATURE:
93 <221> NAME/KEY: MISC_FEATURE
94 <222> LOCATION: (29)..(29)
95 <223> OTHER INFORMATION: Xaa=Asn or Gly
97 <220> FEATURE:
98 <221> NAME/KEY: MISC_FEATURE
99 <222> LOCATION: (31)..(31)
100 <223> OTHER INFORMATION: Xaa=Pro or Ala
102 <220> FEATURE:
103 <221> NAME/KEY: MISC_FEATURE
104 <222> LOCATION: (41)..(41)
105 <223> OTHER INFORMATION: Xaa=Tyr or Ala
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108 <221> NAME/KEY: MISC_FEATURE
109 <222> LOCATION: (45)..(45)
110 <223> OTHER INFORMATION: Xaa=Ile or Val
112 <220> FEATURE:
113 <221> NAME/KEY: MISC_FEATURE
114 <222> LOCATION: (46)..(46)
115 <223> OTHER INFORMATION: Xaa=Ala or Ser
117 <220> FEATURE:
118 <221> NAME/KEY: MISC_FEATURE
119 <222> LOCATION: (48)..(48)
120 <223> OTHER INFORMATION: Xaa=Ser, Asn or Gly
122 <220> FEATURE:
123 <221> NAME/KEY: MISC_FEATURE

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Output Set: N:\CRF3\06282002\I804490.raw

124 <222> LOCATION: (54)..(54)
125 <223> OTHER INFORMATION: Xaa=Glu or Asp
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129 <221> NAME/KEY: MISC_FEATURE
130 <222> LOCATION: (56)..(56)
131 <223> OTHER INFORMATION: Xaa=Thr or Val
133 <220> FEATURE:
134 <221> NAME/KEY: MISC_FEATURE
135 <222> LOCATION: (71)..(71)
136 <223> OTHER INFORMATION: Xaa=Thr or Ser
138 <220> FEATURE:
139 <221> NAME/KEY: MISC_FEATURE
140 <222> LOCATION: (79)..(79)
141 <223> OTHER INFORMATION: Xaa=Gln or Glu
143 <220> FEATURE:
144 <221> NAME/KEY: MISC_FEATURE
145 <222> LOCATION: (83)..(83)
146 <223> OTHER INFORMATION: Xaa=Asp or Glu
148 <220> FEATURE:
149 <221> NAME/KEY: MISC_FEATURE
150 <222> LOCATION: (84)..(84)
151 <223> OTHER INFORMATION: Xaa=Arg or Lys
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154 <221> NAME/KEY: MISC_FEATURE
155 <222> LOCATION: (85)..(85)
156 <223> OTHER INFORMATION: Xaa=Leu or Val
158 <220> FEATURE:
159 <221> NAME/KEY: MISC_FEATURE
160 <222> LOCATION: (91)..(91)
161 <223> OTHER INFORMATION: Xaa=Ser or Ala
163 <220> FEATURE:
164 <221> NAME/KEY: MISC_FEATURE
165 <222> LOCATION: (95)..(95)
166 <223> OTHER INFORMATION: Xaa=Gln or Met
168 <220> FEATURE:
169 <221> NAME/KEY: MISC_FEATURE
170 <222> LOCATION: (114)..(114)
171 <223> OTHER INFORMATION: Xaa=Ser or Ala
173 <220> FEATURE:
174 <221> NAME/KEY: MISC_FEATURE
175 <222> LOCATION: (115)..(115)
176 <223> OTHER INFORMATION: Xaa=Glu or Gln
178 <220> FEATURE:
179 <221> NAME/KEY: MISC_FEATURE
180 <222> LOCATION: (116)..(116)
181 <223> OTHER INFORMATION: Xaa=Glu or Asp
183 <220> FEATURE:
184 <221> NAME/KEY: MISC_FEATURE
185 <222> LOCATION: (135)..(135)

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Output Set: N:\CRF3\06282002\I804490.raw

186 <223> OTHER INFORMATION: Xaa=Asn or Ser
 189 <220> FEATURE:
 190 <221> NAME/KEY: MISC_FEATURE
 191 <222> LOCATION: (139)..(139)
 192 <223> OTHER INFORMATION: Xaa=Asn or Met
 194 <220> FEATURE:
 195 <221> NAME/KEY: MISC_FEATURE
 196 <222> LOCATION: (157)..(157)
 197 <223> OTHER INFORMATION: Xaa=Lys or Arg
 199 <220> FEATURE:
 200 <221> NAME/KEY: MISC_FEATURE
 201 <222> LOCATION: (158)..(158)
 202 <223> OTHER INFORMATION: Xaa=Ala or Asn
 204 <220> FEATURE:
 205 <221> NAME/KEY: MISC_FEATURE
 206 <222> LOCATION: (160)..(160)
 207 <223> OTHER INFORMATION: Xaa=Val or Ile
 209 <220> FEATURE:
 210 <221> NAME/KEY: MISC_FEATURE
 211 <222> LOCATION: (162)..(162)
 212 <223> OTHER INFORMATION: Xaa=Cys or Val
 214 <220> FEATURE:
 215 <221> NAME/KEY: MISC_FEATURE
 216 <222> LOCATION: (166)..(166)
 217 <223> OTHER INFORMATION: Xaa=Ser or Ala
 219 <220> FEATURE:
 220 <221> NAME/KEY: MISC_FEATURE
 221 <222> LOCATION: (167)..(167)
 222 <223> OTHER INFORMATION: Xaa=Glu or Asp
 224 <220> FEATURE:
 225 <221> NAME/KEY: MISC_FEATURE
 226 <222> LOCATION: (168)..(168)
 227 <223> OTHER INFORMATION: Xaa=His or Asn
 229 <220> FEATURE:
 230 <221> NAME/KEY: MISC_FEATURE
 231 <222> LOCATION: (170)..(170)
 232 <223> OTHER INFORMATION: Xaa=Ala, Val or Leu
 234 <220> FEATURE:
 235 <221> NAME/KEY: MISC_FEATURE
 236 <222> LOCATION: (173)..(173)
 237 <223> OTHER INFORMATION: Xaa=Lys or Arg
 239 <220> FEATURE:
 240 <221> NAME/KEY: MISC_FEATURE
 241 <222> LOCATION: (174)..(174)
 242 <223> OTHER INFORMATION: Xaa=Thr, Ser or Ala
 244 <400> SEQUENCE: 1

W--> 246 Cys Gly Pro Gly Arg Xaa Xaa Xaa Xaa Xaa Arg Arg Xaa Xaa Xaa Lys
 247 1 5 10 15
 W--> 250 Xaa Leu Xaa Pro Leu Xaa Tyr Lys Gln Phe Xaa Pro Xaa Val Xaa Glu

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	251		20		25		30										
W-->	254	Lys	Thr	Leu	Gly	Ala	Ser	Gly	Arg	Xaa	Glu	Gly	Lys	Xaa	Xaa	Arg	Xaa
	255			35				40						45			
W-->	258	Ser	Glu	Arg	Phe	Lys	Xaa	Leu	Xaa	Pro	Asn	Tyr	Asn	Pro	Asp	Ile	Ile
	259		50					55					60				
W-->	262	Phe	Lys	Asp	Glu	Glu	Asn	Xaa	Gly	Ala	Asp	Arg	Leu	Met	Thr	Xaa	Arg
	263	65					70				75					80	
W-->	266	Cys	Lys	Xaa	Xaa	Xaa	Asn	Ser	Leu	Ala	Ile	Xaa	Val	Met	Asn	Xaa	Trp
	267					85					90					95	
	270	Pro	Gly	Val	Lys	Leu	Arg	Val	Thr	Glu	Gly	Trp	Asp	Glu	Asp	Gly	His
	271				100					105					110		
W-->	274	His	Xaa	Xaa	Xaa	Ser	Leu	His	Tyr	Glu	Gly	Arg	Ala	Val	Asp	Ile	Thr
	275				115				120					125			
W-->	278	Thr	Ser	Asp	Arg	Asp	Arg	Xaa	Lys	Tyr	Gly	Xaa	Leu	Ala	Arg	Leu	Ala
	279		130					135					140				
W-->	282	Val	Glu	Ala	Gly	Phe	Asp	Trp	Val	Tyr	Tyr	Glu	Ser	Xaa	Xaa	His	Xaa
	283	145					150					155				160	
W-->	286	His	Xaa	Ser	Val	Lys	Xaa	Xaa	Xaa	Ser	Xaa	Ala	Ala	Xaa	Xaa	Gly	Gly
	287					165				170						175	

RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : N:\Crf3\Datahold\EFS\09804490\CIBT-P01-114SequenceListing.txt
Output Set: N:\CRF3\06282002\I804490.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 6,7,8,9,10,13,14,15,17,19,22,27,29,31,41,45,46,48,54,56,71

Seq#:1; Xaa Pos. 79,83,84,85,91,95,114,115,116,135,139,157,158,160,162,166

Seq#:1; Xaa Pos. 167,168,170,173,174

VERIFICATION SUMMARY

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Input Set : N:\Crf3\Datahold\EFS\09804490\CIBT-P01-114SequenceListing.txt

Output Set: N:\CRF3\06282002\I804490.raw

L:246 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:250 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16
L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:32
L:258 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:48
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:64
L:266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:80
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:112
L:278 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:128
L:282 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:144
L:286 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:160